t10_modelc_1 (TMUiXk8onXVsZi4EEtRQr6dmr1R2iqawTVA)

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Let $v1\_modelc\_1 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v10\_modelc\_1 : \iota \Rightarrow o$ be given. Let $l2\_modelc\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18\_modelc\_1 : \iota$ be given. Let $u3\_modelc\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24\_modelc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13\_modelc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28\_modelc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_modelc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_modelc\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_robbins1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_modelc\_1\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.((v1\_modelc\_1\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2) \wedge ((v10\_modelc\_1\ X2) \wedge (l2\_modelc\_1\ X2))) \Rightarrow (\forall X3.((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ k18\_modelc\_1\ (u3\_modelc\_1\ X2)) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k18\_modelc\_1\ (u3\_modelc\_1\ X2)))))) \Rightarrow (k24\_modelc\_1\ X2\ X3\ (k8\_modelc\_1\ X0\ X1) = k2\_lattices\ X2\ (k24\_modelc\_1\ X2\ X3\ X0)\ (k24\_modelc\_1\ X2\ X3\ X1))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_modelc\_1\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v10\_modelc\_1\ X1) \wedge (l2\_modelc\_1\ X1))) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ k18\_modelc\_1\ (u3\_modelc\_1\ X1)) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k18\_modelc\_1\ (u3\_modelc\_1\ X1)))))) \Rightarrow (k24\_modelc\_1\ X1\ X2\ (k7\_modelc\_1\ X0) = k3\_robbins1\ X1\ (k24\_modelc\_1\ X1\ X2\ X0)))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_modelc\_1\ X0)\wedge(m1\_finseq\_1\ X0\ k5\_numbers))\wedge((v1\_modelc\_1\ X1)\wedge(m1\_finseq\_1\ X1\ k5\_numbers)))\Rightarrow(v1\_modelc\_1\ (k8\_modelc\_1\ X0\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_modelc\_1\ X0)\wedge(m1\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(v1\_modelc\_1\ (k7\_modelc\_1\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_finseq\_1\ X0\ k5\_numbers)\wedge(m1\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(m2\_finseq\_1\ (k8\_modelc\_1\ X0\ X1)\ k5\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_finseq\_1\ X0\ k5\_numbers)\Rightarrow(m2\_finseq\_1\ (k7\_modelc\_1\ X0)\ k5\_numbers) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge((v10\_modelc\_1\ X0)\wedge(l2\_modelc\_1\ X0)))\wedge(((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ k18\_modelc\_1\ (u3\_modelc\_1\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k18\_modelc\_1\ (u3\_modelc\_1\ X0))))))\wedge((v1\_modelc\_1\ X2)\wedge(m1\_finseq\_1\ X2\ k5\_numbers))))\Rightarrow(m1\_subset\_1\ (k24\_modelc\_1\ X0\ X1\ X2)\ (u1\_struct\_0\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v10\_modelc\_1\ X0)\wedge(l2\_modelc\_1\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(k28\_modelc\_1\ X0\ X1\ X2 = k3\_robbins1\ X0\ (k2\_lattices\ X0\ (k3\_robbins1\ X0\ X1)\ (k3\_robbins1\ X0\ X2))))) \tag{9}$$

Assume the following.

$$\forall X0.((v1\_modelc\_1\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1.((v1\_modelc\_1\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(k13\_modelc\_1\ X0\ X1 = k7\_modelc\_1\ (k8\_modelc\_1\ (k7\_modelc\_1\ X0)\ (k7\_modelc\_1\ X1)))) \tag{10}$$

Theorem 1

$$\forall X0.((v1\_modelc\_1\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1.((v1\_modelc\_1\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(\forall X2.((\neg v2\_struct\_0\ X2)\wedge((v10\_modelc\_1\ X2)\wedge(l2\_modelc\_1\ X2)))\Rightarrow(\forall X3.((v1\_funct\_1\ X3)\wedge((v1\_funct\_2\ X3\ k18\_modelc\_1\ (u3\_modelc\_1\ X2))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k18\_modelc\_1\ (u3\_modelc\_1\ X2))))))\Rightarrow(k24\_modelc\_1\ X2\ X3\ (k13\_modelc\_1\ X0\ X1) = k28\_modelc\_1\ X2\ (k24\_modelc\_1\ X2\ X3\ X0)\ (k24\_modelc\_1\ X2\ X3\ X1)))))$$